

PRODUCT MODEL

Split- phase Inverter

Battery voltage: 48V



Product Features:

Safe & Reliable

- Passed UL 1741:2021, IEEE 1547.1, UL1699B, South Africa NRS097-2-1:2017 test certification;

Friendly & Flexible

- Max. 3 pcs in parallel;
- Support multi-machine parallel mode sharing a battery pack;
Single-machine load capacity 100A;

Economical & Efficient

- Support parallel SOC equalization control and parallel current sharing control;
- Using split-phase topology and eliminating the transformers, to make the system efficiency higher;
- Support the diesel generator and the grid access at the same time;

Technical Specification:

Technical specification	QS5KLNA	QS6KLNA	QS8KLNA	QS10KLNA
PV string input				
Max. power(kW)	7.5	9	12	13
Max. DC voltage (V)			500	
MPPT voltage range(V)			120~500	
Max.Input current of single MPPT(A)			14	
No. of MPPT trackers			4	
No. of strings per MPPT trackers			1	
AC output				
Rated output power(kVA)	5	6	8	10
Max. apparent Power (kVA)	5.5	6.6	8.8	11
Rated output current(A)	20.8	25	33.3	41.7
Ac output voltage(V)		120/240(split phase),240 (single phase)		
Frequency (Hz)		50/60		
PF		0.8lagging-0.8leading		
THDi		<3%		
AC output topology		Split phase, single phase		
Battery				
Battery voltage range(V)		40~58		
Max. charging voltage(V)		58		
Max. charge/discharge current(A)	120/120	135/135	190/190	190/210
Battery type		lithium /Lead-acid		
Communication interface		CAN/RS485		
EPS output				
Rated power(kVA)	5	6	8	10
Rated output voltage(V)		120/240 (split phase),240 (single phase)		
Rated output current(A)	20.8	25	33.3	41.7
Rated frequency(Hz)		50/60		
Automatic switchover time(ms)		<20		
THDu		<2%		
Overload capacity		125%,60S /150%,1S		
General data				
Max. efficiency		≥98.2%		
CEC efficiency		≥97.2%		
Ingress protection		IP65/NEMA 3R		
Noise emission(dB)	<25	<29	<29	<29
Operation temperature (°C)		-25 ~ 60 (>45 Derating)		
Cooling		Forced air		
Relative humidity		0 ~95% (non-condensing)		
Operation altitude (m)		2,000 (>2,000 Derating)		
Dimensions W *D *H (mm)		460*225*760		
Net weight (kg)		41		
Topology		Non-isolated		
Self-consumption at night (W)		<25		
Display and communication				
Display		LCD/ touch screen		
Interface:RS485/Wifi/4G/ CAN/Bluetooth		Yes		
Safety standard		UL1741, CSA C22.2 No. 107.1:16,UL1998		
EMC		FCC Part 15, Class B		
On-grid		IEEE1547, CPUC Rule21, SRD V2.0, UL1741 SA, UL1741 SB		
DC ARC-Fault		UL1699B		